



MACHINE TOOL TECHNOLOGY

MINIMUM EQUIPMENT LIST

Instructional Equipment and Software

Item Name	Count 15 Students	Count 20 Students	Count 25 Students	Description/Specification
Television/VCR/DVD	1	1	1	25"
Overhead Projector with Screen	1	1	1	
A/V Cart/Media Storage Center	1	1	1	
LCD	1	1	1	
Air Compressor	1	1	1	115 V, 3HP, 60 gal. tank
Air Regulators	1	1	1	Water & oil separator
Arbor Press	1	1	1	Hydraulic, 50-ton
CAD Software	1	2	3	AutoCAD LT or Inventor
Collet Sets	3	4	5	1/4"-1"
Computer System	1	2	3	See Technical and Professional Education Technology Standards
Computer Printer	1	2	3	See Technical and Professional Education Technology Standards
Dial Caliper	2	3	4	6"
Digital Readout	2	3	4	For vertical milling machine
Drill Press, Bench	1	1	2	8", variable speed, 1/3 HP, w/attachments
Drill Press, Floor	1	1	2	20", variable speed, 1 1/2 HP, w/attachments
Drill, Electric	1	2	3	1/2" drive, reversible, variable speed
Drill, Electric	1	2	3	3/8" drive reversible, variable speed
End Mill Sets	3	3	3	1/4-1"
Gauge Set, Radius	1	1	1	
Gauge, Height	1	1	1	
Grinder	1	1	1	Surface, 220 V, 1 HP, 6" X 18", magnetic chuck, automatic feed, w/Attachments
Grinder, Bench	1	1	1	7", 115V, 1/2 HP
Grinder, Carbide	1	1	1	115V, 1/2 HP
Grinder, Electric	1	2	3	7", hand held
Grinder, Pedestal/Bench	1	1	1	10", 1 HP
Grinder, Tool and Cutter	1	1	1	1/2 HP
Grinder, Tool Post	1	1	1	115V, 1/4 HP
Hardness Tester	1	1	1	
Indexing Head	1	1	1	For vertical milling machine
Lathe, Bench	2	3	4	1 1/2 HP, 9" X 20" w/attachments
Lathe, Gap Bed	1	1	1	1 1/2 HP, 9" X 20" w/attachments

Item Name	Count 15 Students	Count 20 Students	Count 25 Students	Description/Specification
Mandrels Set	3	4	5	Lathe
Micrometer	2	3	4	1"-2"
Micrometer	2	3	4	2"-3"
Micrometer	1	2	3	3"-4"
Micrometer	1	2	3	Digital, 0-1", .0001" accuracy
Milling Machine, Vertical	1	2	3	8"x30", variable speed 3 axis, 1 1/2 HP, w/attachments
Milling Machine, Vertical	1	1	1	9"x42", variable speed, 3 axis, 3 HP power feed, w/attachments
Parallel Set	2	3	4	For vertical milling machine
Reamer Set	1	2	3	
Rotary Table	1	1	1	For vertical milling machine
Sander	1	2	3	Belt and Disc, 6" belt, 12" disc, 1 1/2 HP
Saw, Band	1	1	1	Horizontal, 1/2 HP, 1" blade capacity, 3 speed, coolant system
Saw, Band	1	1	1	Vertical, 2HP, variable speed, w/blade welder
Surface Plate	1	1	1	20" X 30", granite
Tap and Die Set	1	1	1	Standard 1/4-1/2" & 3-12mm
Vise	2	2	2	Drill Press, angle adjustable
Vise	6	7	8	Machinist, 4"
Workbench	6	7	8	Steel, 30" X 60"
Wrench Set	1	2	3	Standard and metric, 5/16"-1 1/16"